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APPLICATION NO.	FILING DA	ATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,384	06/03/2005		Richard N Fargo	60469-220;OT-5079	4539
	7590	06/20/2007	EXAMINER		
David J. Gaske Carlson, Gaske	y \$ Olds	SINGH, KAVEL			
400 w. maple rd suite 350 Birmingham, MI 48009				ART UNIT	PAPER NUMBER
				3651	
				MAIL DATE	DELIVERY MODE
				06/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	10/537,384	FARGO ET AL.					
Office Action Summary	Examiner	Art Unit					
·	Kavel P. Singh	3651					
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period wince the provision of the provis	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim Il apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONET	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 03 Jul	ne 2005.						
·— · · · · · · · · · · · · · · · · · ·	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	, , , , , , , , , , , , , , , , , , , ,						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7) Claim(s) is/are objected to.	•						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) acce	pted or b)⊡ objected to by the E	xaminer.					
Applicant may not request that any objection to the d	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign r a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	(PCT Rule 17.2(a)).	,					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary (
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Dai 5) Notice of Informal Pa						
Paper No(s)/Mail Date <u>6/03/05</u> .	6) Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4,6,8-11,13-16,18,19,21, and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Boltrek U.S. Patent No. 3,677,388.

Claim 1, Boltrek teaches an inner side adapted to engage a drive member (23) (C3 L1-2); and an outer side including a plurality of teeth (13) that are adapted to engage a corresponding portion of a step chain(11), the outer side teeth each including a base and a compressible projection (13+) distal from the base (Fig. 2).

Claim 2, Boltrek teaches the compressible (13+) projections are rounded (Fig. 2).

Claim 3, Boltrek teaches the teeth (13+) include a generally concave surface extending between the projection and the base (Fig. 2).

Claims 4,6,15, and 16, Boltrek teaches the teeth (13+) each have an engaging surface profile that includes the compressible projection, the engaging surface including a first concave portion having a first radius of curvature beginning adjacent the base, a second

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concave portion having a second radius of curvature adjacent the first portion and a third concave portion having a third radius of curvature extending between the second portion and the projection (Fig. 2) (C3 L23-28).

Claim 8, Boltrek teaches the teeth (13+) each include a relief near the projection that increases the compliance of the tooth near the projection (C3 L38-40).

Claim 9, Boltrek teaches the teeth comprise a urethane material (C3 L32-33).

Claims 10,11,21, and 22, Boltrek teaches a second plurality of teeth on the inner side and wherein the plurality of teeth on the outer side have a first pitch that is different and than a second pitch of the second plurality of teeth and is finer than the first pitch (C3 L47-50).

Claim 13, Boltrek teaches a step chain (11) having a plurality of links (13) each having a plurality of engaging members (C2 L70-71); a drive mechanism (23); and a belt having an inner side that cooperates with the drive mechanism and an outer side including a plurality of teeth having engaging surfaces that are at least partially concave and that cooperate with the engaging members on the step chain so that movement of the drive mechanism causes movement of the belt which causes movement of the step chain (Fig. 2) (C3 L1-5).

Claim 14, Boltrek teaches the step chain (13) engaging members include teeth (13+) having a convex surface that is at least partially received within the concave portion of the belt teeth engaging surfaces (Fig. 2).

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Claims 18 and 19, Boltrek teaches the first, second and third portions establish the concave portion of the engaging surface and the projection establishes a convex portion of the engaging surface (Fig 2) (C3 L35-36).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5,7,12,17, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boltrek U.S. Patent No. 3,677,388.

Claims 5 and 17, Boltrek teaches the teeth (13+) each have a height dimension and wherein the first radius of curvature is approximately one-sixth of the height dimension, the second radius of curvature is at least six times the first radius and the third radius of curvature is at least three times the first radius (Fig. 2).

Claims 7 and 20, Boltrek teaches the teeth have a height dimension that is approximately 7 mm, the first radius is approximately 1.2 mm, the second radius is approximately 8 mm, the third radius is approximately 4.5 mm, the first projection radius is approximately 3 mm and the second projection radius is approximately 0.5 mm.

Claim 12, Boltrek teaches the second pitch is approximately one-half of the first pitch (Fig. 2).

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The recitation of the dimension of the belt height, radius, and pitch angle dimensions appear to be an obvious design choice and expedient in view of Gardner v. TEC Systems Inc., 725 F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984). The Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ms. Kavel P. Singh whose telephone number is (571) 272-2362. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on (571) 272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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KPS